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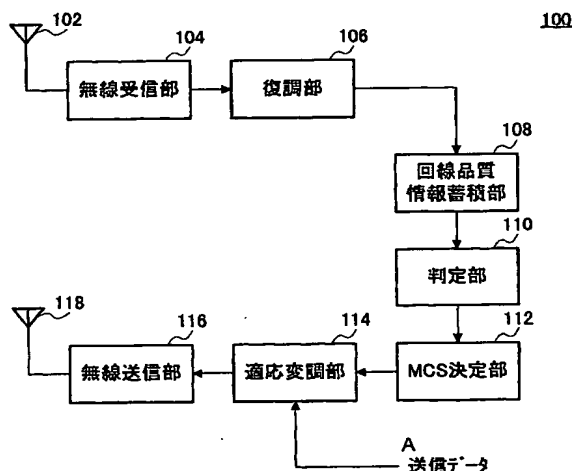
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(54) Title: BASE STATION DEVICE AND ADAPTIVE MODULATION METHOD

(54) 発明の名称: 基地局装置および適応変調方法



104...RADIO RECEPTION SECTION
106...DEMODULATION SECTION
108...LINE QUALITY INFORMATION
ACCUMULATION SECTION
110...JUDGMENT SECTION
116...RADIO TRANSMISSION SECTION
114...ADAPTIVE MODULATION SECTION
112...MCS DECISION SECTION
A...TRANSMISSION DATA

(57) Abstract: A base station device transmits a packet by using an appropriate modulation coding method for a line quality and improves the throughput of the radio communication system. In this device, a radio reception section (104) receives via a reception antenna (102), a radio transmission signal including line quality information transmitted from a communication terminal device and performs predetermined radio reception processing. A demodulation section (106) demodulates the radio transmission signal which has been subjected to the radio reception processing and extracts line quality information. A setting section consists of a line quality information accumulation section (108), a judgment section (110), and an MCS decision section (112) and establishes the modulation coding method according to a plurality of line quality information received. An adaptive modulation section (114) uses the established modulation coding method so as to perform predetermined adaptive modulation processing for the transmission data to be transmitted to a communication terminal device.

(57) 要約: 回線品質に対して常に適切な変調符号化方式を用いてパケットを送信し、無線通信システムのスループットを向上させる基地局装置。本装置において、無線受信部104は、通信端末装置から送信された回線品質情報を含む無線送信信号を受信アンテナ102を介して受信し、所定の無線受信処理を行う。復調部106

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ABSTRACT

A base station apparatus which transmits packets always using a modulation and coding scheme suitable for channel quality, and increases the throughput in the radio communication system. In the apparatus, radio reception section 104 receives a radio transmission signal including channel quality information transmitted from a communication terminal apparatus via reception antenna 102, and performs predetermined radio reception processing. Demodulation section 106 demodulates the radio transmission signal subjected to the radio reception processing, and extracts the channel quality information. A setting unit is comprised of channel quality information storage section 108, judgment section 110 and MCS determination section 112, and sets a modulation and coding scheme based on a plurality of received pieces of channel quality information. Adaptive modulation section 114 performs predetermined adaptive modulation processing on transmission data to transmit to the communication terminal apparatus, using the set modulation and coding scheme.